Improvements & Construction of CC Road, Drain &

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Building & Highway Material Testing Laboratory

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T-2377

Job No.: CTCE/BBMP/AP/W.No.15/CSR.7/900a/CEMENT/2015-16 Date: 22.07.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. A. Pradeep,** No. 29.1, 2nd Cross, EWS, K.H.B Colony, 2nd Stage, Basaveshwaranagara, Bangalore.
*NAME OF THE WORK	:	Improvements and construction of CC road, drain and RCC Culverts at Coconut Garden (Sharada School road) 2nd, 3rd, 4th and 5th cross road in Dasarahalli Ward No.15, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 20.07.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	20.07.2015
PERIOD OF TESTING	:	20.07.2015 to 22.07.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	460 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH. I.A.
Chief Executive Officer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

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...nts & Construction of cc Road, drain & Rcc culverts @ coconut

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T-2377

Job No.: CTCE/BBMP/AP/W.No.15/CSR.7/900a/SAND-Gradation/2015-16 : 22.07.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Pradeep,** No. 29.1, 2nd Cross, EWS, K.H.B Colony, 2nd Stage, Basaveshwaranagara, Bangalore.
* Name of Work	: Improvements and construction of CC road, drain and RCC Culverts at Coconut Garden (Sharada School road) 2nd, 3rd, 4th and 5th cross road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 20.07.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 20.07.2015
Date of Testing	: 22.07.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.73	90-100	90-100	90-100	95-100
2.36	80.88	60-95	75-100	85-100	95-100
1.18	58.74	30-70	55-90	75-100	90-100
600 Micron	26.67	15-34	35-59	60-79	80-100
300 Micron	15.39	5-20	8-30	12-40	15-50
150 Micron	6.45	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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T-2877

Job No.: CTCE/BBMP/AP/W.No.15/CSR.7/900a/AGG/GR/2015-16 : 22.07.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. A. Pradeep, No. 29.1, 2nd Cross, EWS, K.H.B Colony, 2nd Stage, Basaveshwaranagar, Bangalore.
* Name of Work	: Improvements and construction of CC road, drain and RCC Culverts at Coconut Garden (Sharada School road) 2nd, 3rd, 4th and 5th cross road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 20.07.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 20.07.2015
Date of Testing	: 22.07.2015

Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.88	95-100	85-100
20	51.21	30-70	0-20
10	24.48	10-35	0-5
4.75	2.33	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/AP/W.No.15/CSR.7/900a/CC Solid Block/2015-16 : 24.07.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Pradeep,** No. 29.1, 2nd Cross, EWS, K.H.B Colony, 2nd Stage, Basaveshwaranagara, Bangalore.
* Name of the Work	: Improvements and construction of CC road, drain and RCC Culverts at Coconut Garden (Sharada School road) 2nd, 3rd, 4th and 5th cross road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 20.07.2015
Sample Received on	: 20.07.2015
Date of Testing	: 24.07.2015
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	36.23	263.5	3.29	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	35.47	264.7	3.31	
3	Block 3	35.96	263.4	3.29	
4	Block 4	36.58	262.5	3.28	
5	Block 5	34.85	260.9	3.26	
6	Block 6	34.97	261.3	3.27	
7	Block 7	36.47	262.8	3.29	
8	Block 8	35.28	263.2	3.29	

*Information is furnished by the Customer/Representative.

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Ref: CCE: BBMP/AP/W.No.15/CSR.7/900a/Pre slab/2015-16 — 10.08.2015

TEST REPORT ON CONCRETE CORE (PRECAST SLAB)

*Name of Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
*Name of Agency	:	**Mr. A. Pradeep,** No. 29.1, 2nd Cross, EWS, K.H.B Colony, 2nd Stage, Basaveshwaranagara, Bangalore.
*Name of work	:	Improvements and construction of CC road, drain and RCC Culverts at Coconut Garden (Sharada School road) 2nd, 3rd, 4th and 5th cross road in Dasarahalli Ward No.15, BBMP, Bangalore.
Referece	:	BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 20.07.2015
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Precast Slab
Sample received on	:	05.08.2015
Date of Testing	:	10.08.2015
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	76.00	0.392	2626.89	1.52	0.954	32.91	16.76	18.10	17.27	21.59
2	50.00	75.00	0.384	2607.59	1.50	0.950	32.46	16.53	17.85	16.96	21.20
3	50.00	82.00	0.402	2496.79	1.64	0.965	33.25	16.93	18.29	17.65	22.06

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